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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/830,223	11/18/2003	Takahiro Nakajima	11197/5	3150
23838 7.	590 05/28/2004		EXAMINER	
KENYON & KENYON 1500 K STREET, N.W., SUITE 700 WASHINGTON, DC 20005			PASTERCZYK, JAMES W	
			ART UNIT	PAPER NUMBER
			1755	
			DATE MAILED: 05/28/2004	

Please find below and/or attached an Office communication concerning this application or proceeding.

	and the contract of the contra	and the second s					
	1	Application No.	Applicant(s)				
		09/830,223	NAKAJIMA ET AL				
Office Action Summary		Examiner	Art Unit				
		J. Pasterczyk	1755				
Period fo	The MAILING DATE of this communicat or Reply	ion appears on the cover :	sheet with the correspondence ad	ldress			
THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communication of the reply specified above is less than thirty (30) date of period for reply is specified above, the maximum statutoure to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION. ' CFR 1.136(a). In no event, howev ation. ys, a reply within the statutory minin y period will apply and will expire Si by statute, cause the application to b	er, may a reply be timely filed num of thirty (30) days will be considered timel X (6) MONTHS from the mailing date of this co				
Status							
1)	Responsive to communication(s) filed o	n					
2a)□	This action is FINAL . 2b) ☐ This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
·	Claim(s) <u>1-76</u> is/are pending in the appl 4a) Of the above claim(s) is/are v Claim(s) is/are allowed.		tion.				
	Claim(s) is/are rejected.						
7)	Claim(s) is/are objected to.						
8)🖂	Claim(s) 1-76 are subject to restriction a	and/or election requireme	nt.				
Applicat	ion Papers						
9)[The specification is objected to by the E.	xaminer.					
10)	The drawing(s) filed on is/are: a)	☐ accepted or b)☐ obje	cted to by the Examiner.				
	Applicant may not request that any objection	n to the drawing(s) be held in	n abeyance. See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the	correction is required if the	drawing(s) is objected to. See 37 Cl	FR 1.121(d).			
11)	The oath or declaration is objected to by	the Examiner. Note the	attached Office Action or form P1	ΓO-152.			
Priority	under 35 U.S.C. § 119						
•	Acknowledgment is made of a claim for ☑ All b)☐ Some * c)☐ None of:	foreign priority under 35 l	J.S.C. § 119(a)-(d) or (f).				
	1. Certified copies of the priority doc						
	2. Certified copies of the priority documents have been received in Application No						
	3. ☑ Copies of the certified copies of t			Stage			
بالد	application from the International						
* `	See the attached detailed Office action fo	or a list of the certified cop	nes not received.				
2) Notic	ut(s) ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO- mation Disclosure Statement(s) (PTO-1449 or PTO	948) F	nterview Summary (PTO-413) Paper No(s)/Mail Date. <u>5/21/04</u> . Notice of Informal Patent Application (PTO	O-152)			
Pape	er No(s)/Mail Date		Other:				
PTOL-326 (F		Office Action Summary	Part of Paper No./Mail D	ate 20040526			

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1. This Office action is in response to the telephonic interview of 5/21/04 with David Wallace, Esq., and the hand-carried PTO -1449 with accompanying prior art and memo from Mr. Wallace received 5/24/04. As per the interview, the courtesy copy of the specification, claims and abstract dated 11/18/03 will be henceforth used by this examiner for all purposes since the amended claims filed 1/21/03 would have made many of the claims indefinite; this latter amendment will be disregarded. The examiner notes that the contents of this courtesy copy are identical to the matter scanned into the PTO's computerized examination system known as eDAN and dated therein 11/18/03. The prior art will be made of record upon a full examination on the merits. However, c.f. below for issues of lack of unity of invention and several formal issues that should be dealt with before a full examination on the merits is possible.

2. Restriction is required under 35 USC 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in response to this action, to elect a single invention to which the claims must be restricted.

Group I: claims 1, 2, and the embodiments of dependent claims 3 and 5-48 containing independent claim 1, drawn to an ester polymerization catalyst whose activity obeys certain mathematical equations.

Group II: claim 4 and the embodiments of dependent claims 5-48 containing independent claim 4, drawn to a catalyst for polymerizing esters having an aryloxy or arylimido group-containing compound and a metal or metal-containing compound wherein the metal is not antimony or germanium.

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Group III: claim 49 and 50, drawn to an ester polymerization catalyst having two components, neither of which has any substantial activity toward ester polymerization.

Group IV: claim 51, drawn to a polyester made using a catalyst having two components, neither of which has any substantial ester polymerization ability.

Group V: claims 52-58, drawn to polyesters made using the catalysts of any of claims 1-50.

Group VI: claim 59, drawn to a polyester film made using the polyester of any of claims 51-58.

Group VII: claims 60-62, drawn to a hollow molded article made using the polyester of any of claims 51-58.

Group VIII: claims 63-67, drawn to a polyester fiber made using the polyester of any of claims 51-58.

Group IX: claims 68-72, drawn to a method of making polyester using the catalysts of any of claims 1-50.

Group X: claims 73-76, drawn to a method of making terephthalates using a catalyst of any of claims 1-50.

3. The inventions listed as Groups I-X do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical feature for the following reasons: groups I, II and III are drawn to three different catalysts, each defined by completely different characteristics. Groups IV and V are both drawn to polyesters, but the claim of group IV is a subset of the claims of group V since the latter polyesters may be made using any of the catalysts of groups I-III, while the polyester of group

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IV may be made using only the catalyst of group III. Other than the manner of making these polyesters, they appear to be indistinguishable over any of those already known in the art. The film of group VI, claim 59, is made using a polyester of any of claims 51-58, which appear to be indistinguishable over any polyester known in the prior art. The hollow molded article of group VII, claims 60-62, is made using a polyester of any of claims 51-58, which other than their source appear to be indistinguishable over any of those of the prior art. The polyester fiber of group VIII, claims 63-67, is made using a polyester of any of claims 51-58, which other than their source appear to be indistinguishable over their prior art. The method of making polyester of group IX, claims 68-72, is a separate statutory class of invention under national practice, and could be practiced with another materially different catalyst than any of the three of groups I, II or III of the present invention. The method of making terephthalates of group X, claims 73-76, is a separate statutory class of invention under national practice, and could be practiced with another materially different catalyst than any of the three of groups I, II or III of the present invention.

4. As the recited polyesters, film made using them, fibers made using them, and hollow molded articles made using them do not make a contribution over the prior art, unity of invention is lacking and restriction is appropriate. Since the three different catalysts have no common special technical feature, unity of invention is lacking and restriction is appropriate. Since the methods of making polyesters and terephthalates are conventional absent the catalysts used to make them, the lack unity of invention and restriction is appropriate. The corresponding method of making polyester and method of making terephthalate for whichever catalyst is elected, if

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indeed applicants do elect one of the catalysts, would be rejoinable in further proceedings if the method were drawn to correspond to only one class of catalyst.

- 5. The examiner wishes to note several other issues that applicants may wish to address in a complete response to this Office action. As intimated above, the present claims make extensive use of multiply dependent claiming, which is barred in national patent practice. This is especially prevalent throughout the dependent claims. In addition, the present claims make extensive use of functional language. This is inconsistent with national practice according to the holding in *ex parte Slob*, 157 USPQ 172 (Bd. Pat. App. & Interf. 1967). This is especially prevalent in the claims to catalysts, particularly claim 1. These claims also use negative language in barring certain metals or other components from the catalysts, particularly claims 2, 4, 49 and 51. This is inconsistent with national practice according to the holding in *ex parte Grasselli*, 231 USPQ 393 (Bd. Pat. App. & Interf. 1983). Finally, claim 1 is not a single sentence as required in national practice; instead it appears to be primarily functional language with a sentence fragment embedded therein. In national practice composition claims are normally recited either by the components or compounds they must contain or in a product-by-process format for when the identities of the separate ingredients become so intermingled as to become indistinguishable in the final product of the process used to make the product.
- 6. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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in Control Number: 09/830,2.

7. Any inquiry concerning this communication or earlier communications from the

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examiner should be directed to J. Pasterczyk whose telephone number is 571-272-1375. The

examiner can normally be reached on M-F from 8:30 to 5 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Mark Bell, can be reached at 571-272-1362. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark L. Bell

Supervisory Patent Examiner

Technology Center 1700

J. Pasterczyk

AU 1755

5/26/04